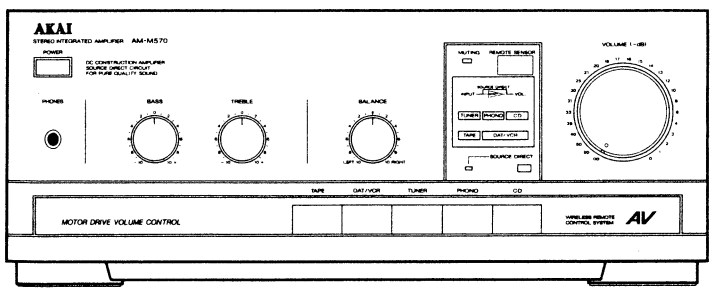
AKAI

STEREO INTEGRATED AMPLIFIER

AM-M570

OPERATOR'S MANUAL (E)



To ensure optimum performance and listening enjoyment, please read this operator's manual thoroughly.

English ..... Paga 1-14
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Akai–Creative At Heart.

Precautions and table of contents

WARNING

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

1-En

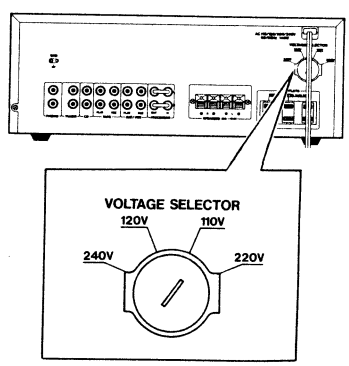
Power requirements

Power requirements for electrical equipment differ from area to area. Please ensure that your machine meets the power requirements in your area.
If in doubt, consult a qualified electrician.

220 V, 50 Hz for Europe except UK
240 V, 50 Hz for UK and Australia
110/120/220/240 V, 50/60 Hz convertible for other countries.

Voltage conversion (Not on all models)

Models for Canada, USA, Europe, UK and Australia are not equipped with this facility. Each machine is preset at the factory according to its destination, but some machines can be set to 110 V, 120 V, 220 V or 240 V as required.
If your unit's voltage can be converted:
Before connecting the power cord, turn the VOLTAGE SELECTOR located on the rear panel with a screwdriver until the correct voltage is indicated.



2-En

Lithium battery

This product uses a lithium battery for memory back-up. The lithium battery should only be replaced by qualified service personnel.
Improper handling may cause risk of explosion.

24-En

What you should know to protect yourself

- Never touch the plug with wet hands.
- Always pull out by the plug and never the cord.
- Only let a qualified professional repair or reassemble the amplifier. An inexperienced person might touch the internal parts and receive a serious electric shock.
- Never put anything, especially metal, into the amplifier.

Protect the amplifier too

- Use only a household AC power source. Never use a DC power source.
- If water is spilled on the amplifier, disconnect it and call your dealer.
- Make sure that the amplifier is well ventilated and away from direct sunlight.
- To avoid damage to the internal circuits and the external surface, keep away from heat (stoves, etc.).
- Avoid using spray type insecticide near the amplifier. It can damage the finish and might ignite suddenly.
- To avoid damaging the finish, never use paint thinner or other similar chemicals to clean the amplifier.
- Place the amplifier on a flat and solid surface.
- If you don't plan to use the amplifier for a long period of time, disconnect the power cord.

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Connections

4

Before beginning

- Turn off all the components before connecting.
- Connect the power cord last.
- Make sure that you connect the white PIN-plug to the left (white) jack and the red PIN-plug to the right (red) jack.
- Connect everything securely. Loose connections can lead to malfunction.
- To prevent damage to the cords, connect and disconnect by holding the plug, not the cord.
- To avoid distortion, make sure that the power cords and the connection cords do not get tangled with each other.
- If your turntable is equipped with an earth wire, securely connect it to the amplifier's ⏚ GND terminal.

On the SWITCHED AC OUTLETS (Voltage convertible models only)

For connection of audio equipment power cords (tuner, CD player, cassette deck, etc.).
The maximum connected power consumption is 300 Watts. Do not exceed the maximum power consumption indicated on the rear panel of the amplifier.
The power to the SWITCHED outlet is turned on and off by the amplifier's POWER switch.
Check the power consumption of the component you wish to connect before connecting it. Refer to the rear panel of the component or the specifications in the component's operator's manual.

Speaker connections

On the speaker system

- Use speakers with 8 to 16 ohms impedance only. Refer to the marking on the amplifier's rear panel.
- Be sure to connect the ⊕ terminals of the speaker system to the ⊕ SPEAKERS terminals of the amplifier and ⊖ terminals to the ⊖ SPEAKERS terminals of the amplifier.
- Connect the left speaker to the L-SPEAKERS terminals of the amplifier and the right speaker to the R-SPEAKERS terminals of the amplifier.

To prevent fire or damage, only connect speakers of 8 to 16 OHM impedance to this unit.

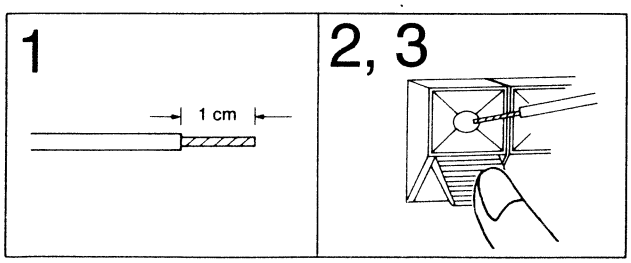
10-En

How to connect

1 Strip off approximately 1 cm length of the vinyl covering from the end of the speaker cords and twist the exposed wires together firmly.

2 While depressing the tab of the speaker terminal to its open position, fully insert the speaker wire into the open terminal.

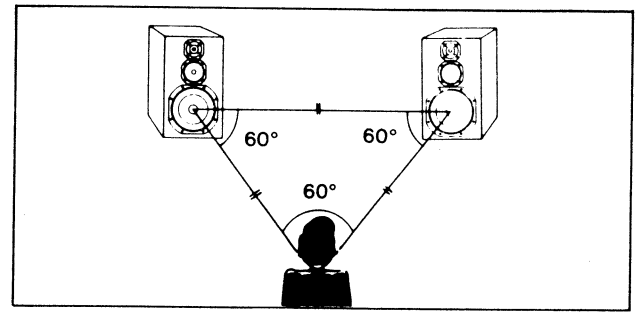
3 Release the tab to connect the wire. Pull the speaker cord gently to make sure that it is securely connected.



The speaker system

Speaker placement

The playback characteristics of the speaker system(s) are greatly influenced by the placement and the room in which the speakers are used. For example, if the speaker system is placed near a hard wall, the bass will sound better but the treble might seem too strong. Play back some music without using the tone controls and move the speaker system around to find the best location. However, please keep the following in mind.



Place the speaker system:

- On a flat and solid surface which does not transmit too many vibrations.
- In a place that is well ventilated, and not very humid.
- Away from direct sunlight and heat sources (stoves, etc.).
- Away from your turntable and TV.

To prevent damage to the speaker system

- Do not raise the volume too high.
- Turn off the amplifier when changing or connecting the player system's cartridge.
- Lower the volume when changing radio stations and when cueing or reviewing tapes.
- Do not touch the speakers' diaphragms.

How to clean the speaker system(s)

- Clean the speaker system(s) with a soft, dry cloth.
- If it is very dirty, use a mild detergent.
- To protect the diaphragms (the vibrating parts), do not spray liquid cleaner directly on the speaker system. Always spray it on a cloth first.
- Never use alcohol, paint thinner or a spray-type insecticide near the speaker system, as this will damage the finish.

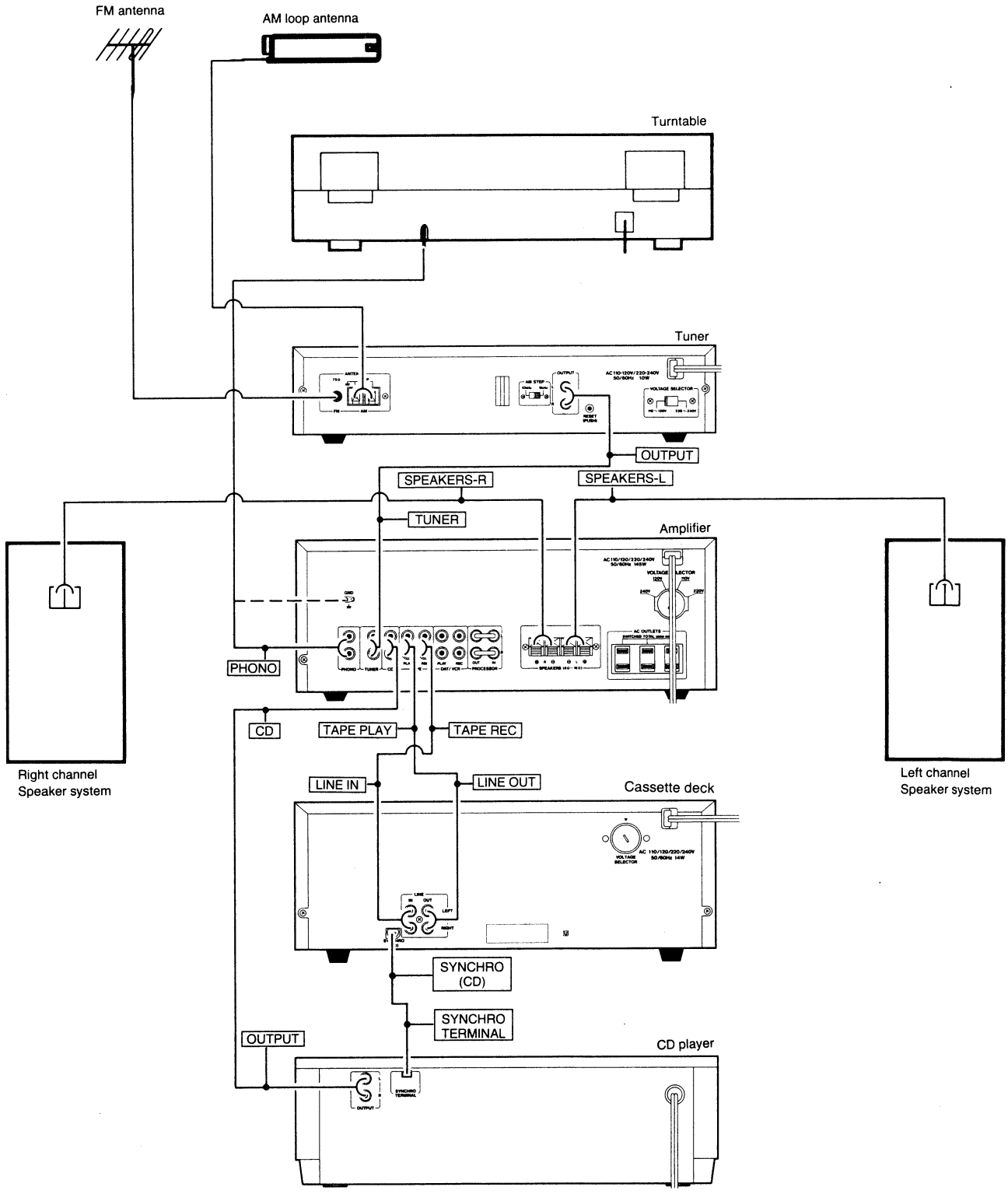
After all connections have been made

Connect the power cords to an optional audio timer or directly to your household AC outlets.

Important

The illustrated power plugs and cords are intended for general reference. The power plug and cord used in your country may differ from the illustrations. (Example; U.K., Australia, U.S.A., Europe etc.)

25-En


FM antenna
AM loop antenna
Turntable
Tuner
OUTPUT
SPEAKERS-R
SPEAKERS-L
TUNER
Amplifier
PHONO
CD
TAPE PLAY
TAPE REC
LINE IN
LINE OUT
Cassette deck
SYNCHRO (CD)
SYNCHRO TERMINAL
OUTPUT
CD player
Right channel Speaker system
Left channel Speaker system

Expanding your Hi-Fi system

Placement and connections

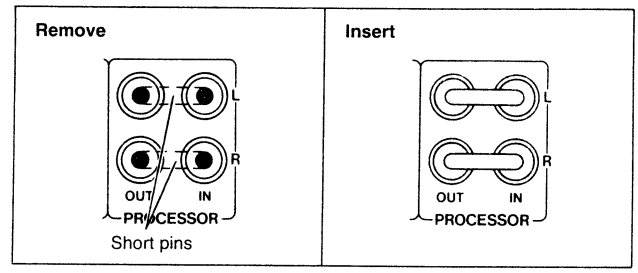
This amplifier is equipped with PROCESSOR IN and OUT jacks as well as DAT/VCR PLAY and REC jacks. The PROCESSOR IN and OUT jacks can be used for connection of an optional graphic equalizer. The DAT/VCR PLAY and REC jacks can be used for connection of a DAT (Digital Audio Tape) deck, cassette deck, or Hi-Fi video cassette recorder. When connecting an additional CD player etc., the DAT/VCR PLAY jacks can be used.

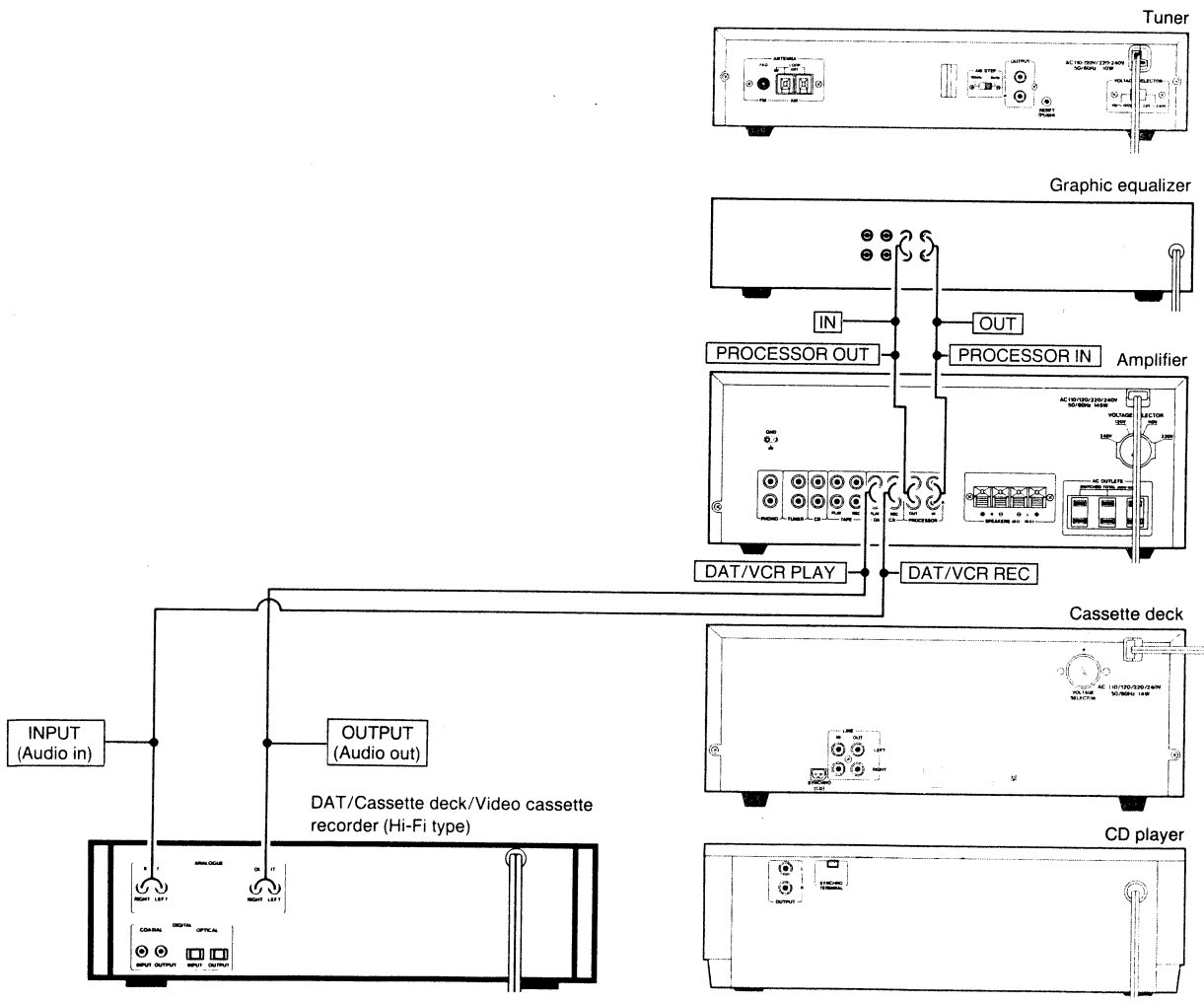
Before beginning

- Turn off all the components.
- Connect the power cord last.
- Use audio connection cords for all connections.
- Position the components as shown in the following illustration.

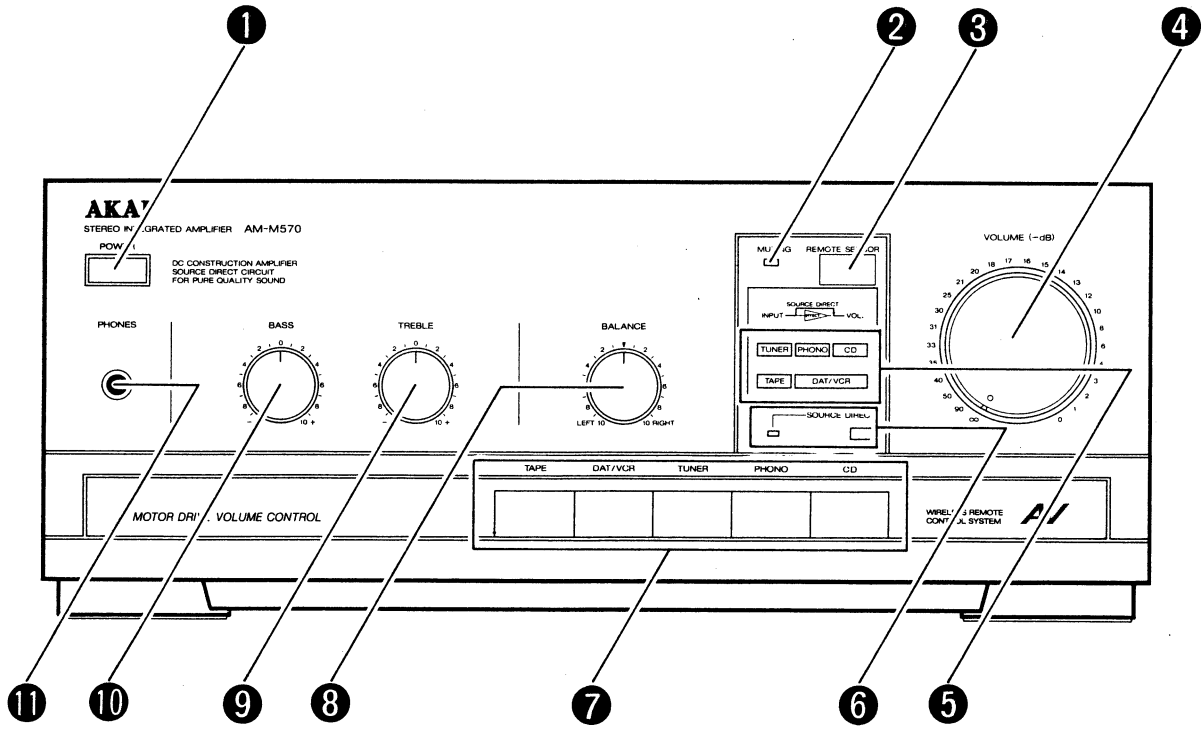
About the short pins

- The short pins connect the pre-amp and power-amp sections of the integrated amplifier. Only remove these pins when connecting a graphic equalizer.
- Do not loose these pins.
- When replacing these pins, insert them in the PROCESSOR IN and OUT jacks as illustrated.





Controls (Amplifier)



❶ POWER Button
To turn the power on and off.

❷ MUTING Indicator
Lights when the remote control's MUTE button is turned on. The volume is attenuated by −20 dB from the set volume level.

❸ REMOTE SENSOR Window
The signals from the remote control are received by this window.
Keep this window clean.

❹ VOLUME Control and Indicator (Motor driven for remote control operation)
To adjust the volume level.

❺ Input Source Indicators (TUNER, PHONO, CD, TAPE, DAT/VCR)
Tells you the amplifier is turned on and which playback source is selected.

❻ SOURCE DIRECT Button and Indicator
When engaged, the input signal bypasses the BASS, TREBLE and BALANCE control for optimum sound quality playback.
The indicator lights when the SOURCE DIRECT button is turned on.

❼ Input Select Buttons (TAPE, DAT/VCR, TUNER, PHONO, CD)
To select a playback or recording source you wish to listen to.

❽ BALANCE Control (LEFT/RIGHT)
To adjust the left and right channel volume balance.

❾ TREBLE Tone Control
To adjust the high note (treble) level.
When set to 0, the control has no effect.

❿ BASS Tone Control
To adjust the low note (bass) level.
When set to 0, the control has no effect.

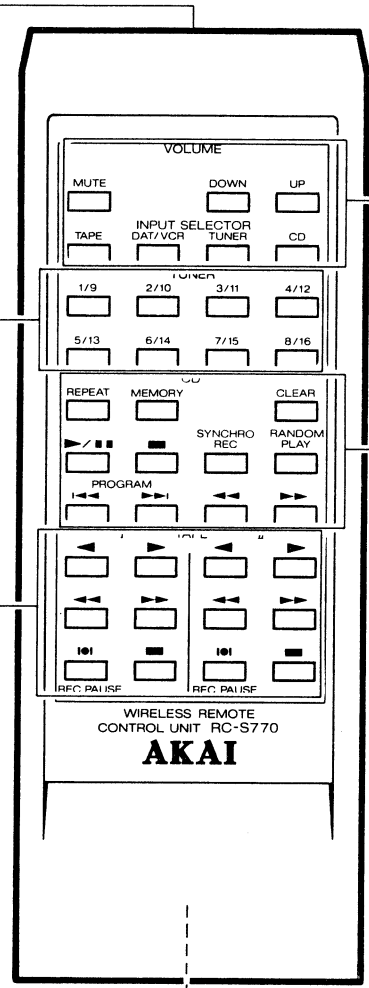
⓫ PHONES Jack
Connect headphones to this jack for private listening.
When the headphones are connected, the speaker output will be cut automatically.

Controls (Remote control unit)

This remote control unit can be used for basic operation of the following components:

Amplifier AM-M570
Tuner AT-M670/L
CD player CD-M670
Cassette deck HX-M670W/HX-M770W

Transmitting window



Tuner control section

TUNER 1/9 to 8/16 Buttons: To tune in a memorized station of the tuner.

Cassette deck control section

TAPE I (Tape 1) Deck control buttons

■ Button: To stop the tape 1 deck.

► and ◄ Buttons: To start forward or reverse direction playback or recording (HX-M770W).

◄◄ or ►► Buttons: To quickly wind the cassette tape.

⏺ REC PAUSE Button: To set the tape 1 deck into the recording mode. Recording will only be performed if your TAPE 1 deck is equipped with a recording facility.

TAPE II (Tape 2) Deck control buttons

■ Button: To stop the tape 2 deck.

► and ◄ Buttons: To start forward or reverse playback or recording.

◄◄ or ►► Buttons: To quickly wind the cassette tape.

⏺ REC PAUSE Button: To set the tape 2 deck into the recording mode.

Amplifier control section

VOLUME MUTE Button: Attenuates the playback volume.

VOLUME DOWN Button: Decreases the volume.

VOLUME UP Button: Increases the volume.

INPUT SELECTOR Buttons (TAPE, DAT/VCR, TUNER, CD): To select an input source for playback or recording.

CD player control section

REPEAT Button: For repeat playback.

MEMORY Button: To memorize tracks for programmed playback.

CLEAR Button: To cancel the memorized program for programmed playback.

►/II Button: To start and stop playback temporarily.

■ Button: To stop playback.

PROGRAM ⏮ and ⏭ Buttons: For skip operation during playback.

Search ◄◄ and ►► Buttons: For search operation during playback.

SYNCHRO REC Button: To start synchronized recording operation.

RANDOM PLAY Button: To start random playback.

Battery compartment and cover

Note

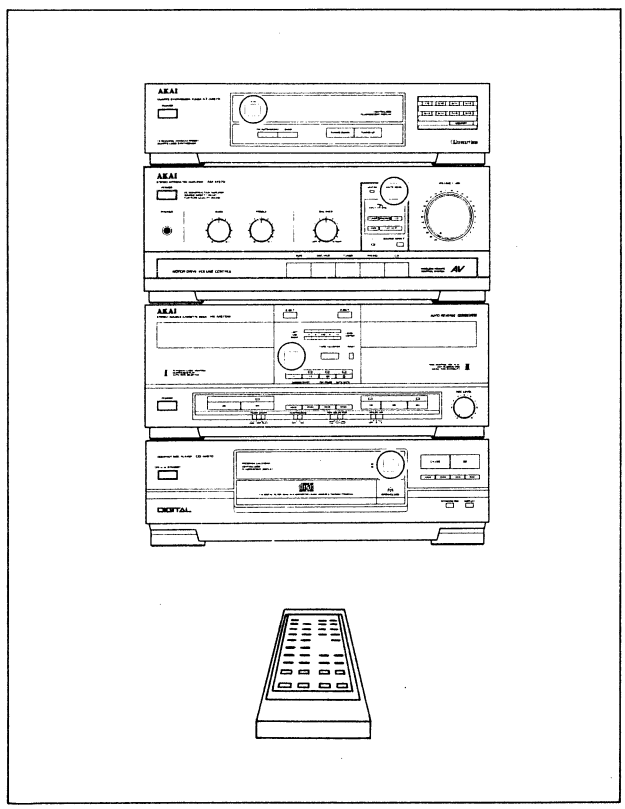
The remote control cannot be used for recording or playback functions that require the combined pressing of two tape transportation buttons (recording from playback or auto play for example). Please use the cassette deck's tape transportation buttons for the operation of such functions.

Operation

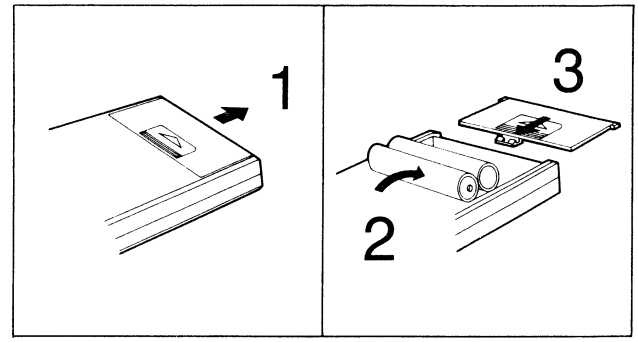
Point the remote control unit at the REMOTE SENSOR windows, and press the desired operation button.

If the remote control unit will only operate from a short distance or a narrow angle, this indicates that the battery voltage is low.

Replace both batteries with new ones.
When replacing the batteries, clean the terminals of the remote control and the batteries with a dry cloth.



How to load the batteries



1 Slide the battery compartment cover in the direction of the arrow, and remove it.

2 Load the batteries according to the polarity guides on the remote control unit.

3 Replace the battery compartment cover.

Cautionary notes

On the remote control unit

- Avoid dropping the remote control unit or getting it wet.
- Avoid exposing the remote control unit to direct sunlight or strong light as this may cause malfunction.
- Do not use rechargeable batteries.
- If you do not plan to use the remote control unit for a long period of time, remove the batteries.
- To avoid malfunction of the remote control unit, keep it away from appliances that generate electrical noise (TV sets, micro-wave ovens, etc.).

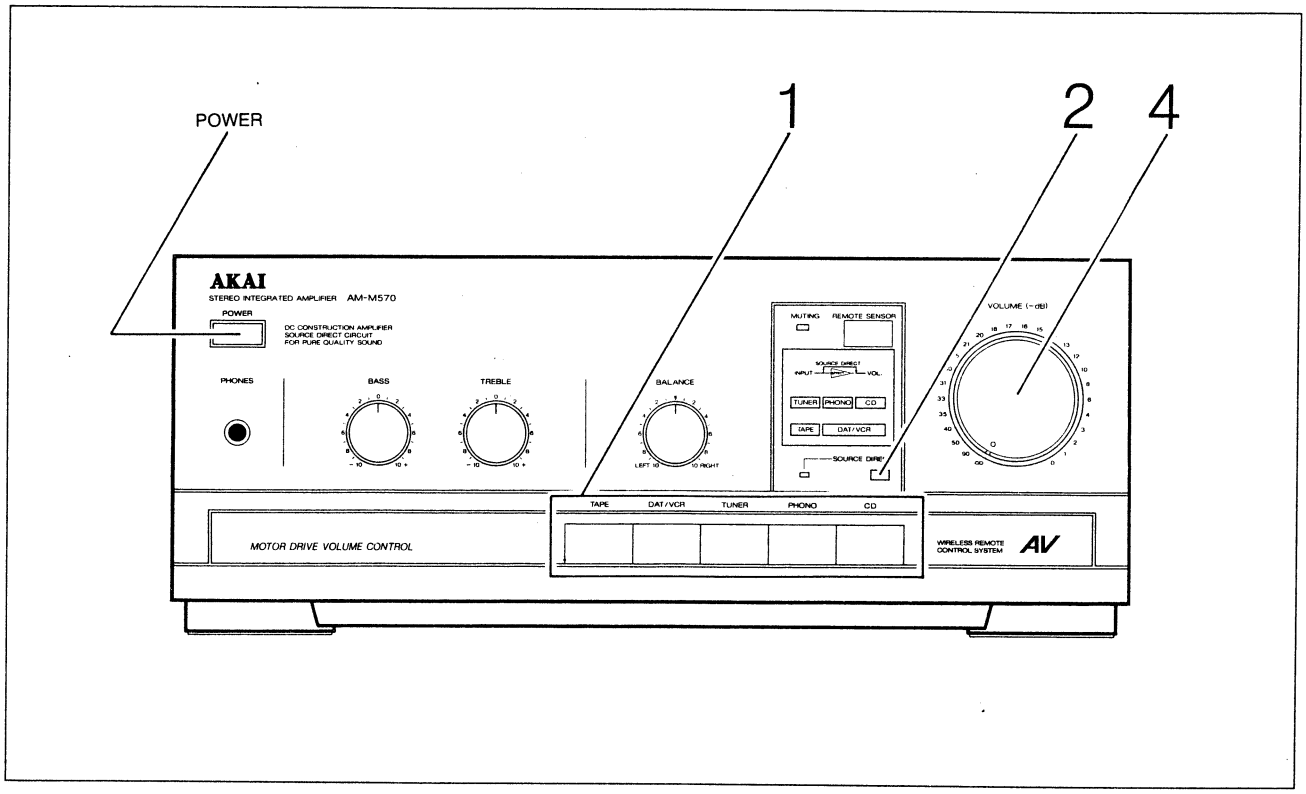
On the dry batteries

- Insert the batteries matching their polarity guides with the in the remote control battery compartment.
- Read the cautions printed on the batteries before inserting them.
- When replacing the batteries, replace both at the same time. Do not mix an old battery with a new one.

Playback

Before beginning

- Set the VOLUME to ∞.
- Set the SOURCE DIRECT button to ▂ off.
- Turn on all the components.
  When the amplifier's power is turned on, the protection circuit will be engaged, preventing sound output for a few seconds.



Operation

1 Select the playback source you wish to listen to.

Record playback	Press PHONO
Broadcast reception	Press TUNER
Compact disc playback	Press CD
Cassette tape playback	Press TAPE
DAT cassette or video cassette playback	Press DAT/VCR

2 Set the SOURCE DIRECT button.
For better sound playback, depress the button to ON.

3 Start playback of the selected source.

4 Adjust the playback volume with the VOLUME control.

SOURCE DIRECT Button

This button is used to help improve sound quality by selecting the shortest circuit route the playback signal will have to travel through the amplifier. When ON, the indicator will light.

Set to ON ▂: The tone and balance control circuits are bypassed.

Set to OFF ▂: The playback signal is routed through the tone and balance control circuits.

Operation details

1 Muting: Reducing the playback volume instantly

The mute system can be used to instantly reduce the playback volume without using the VOLUME control. This is convenient when answering a sudden phone call, etc.

Press the remote control's MUTE button.

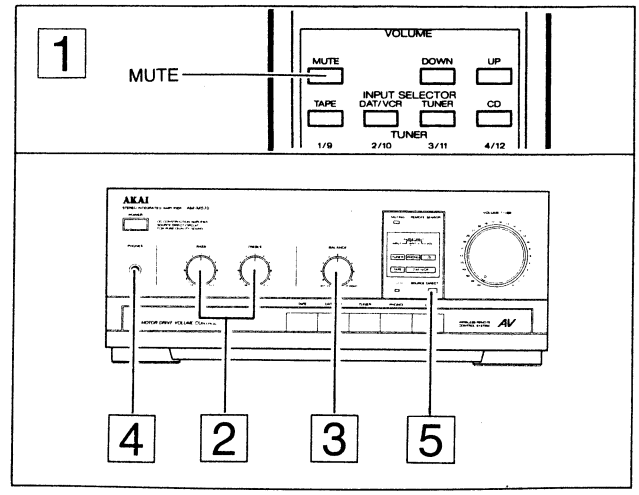
The MUTING indicator will light up and the playback volume will be instantly reduced.

To restore the normal volume level

Press the MUTE button again. The MUTING indicator will go off.

Notes

- During muting, the volume level is reduced by −20 dB (to 1/10) from the set volume level.
- Turning off the power will not cancel the mute system when it is engaged.



2 Tone adjustment during playback

1 Set the SOURCE DIRECT button to OFF.

2 Use the BASS and TREBLE tone controls as follows:

Adjusting low notes

Use the BASS tone control

To increase the level ... Turn the control toward +10
To decrease the level .. Turn the control toward −10
To defeat the control ... Set to 0

Adjusting high notes

Use the TREBLE tone control

To increase the level ... Turn the control toward +10
To decrease the level .. Turn the control toward −10
To defeat the control ... Set to 0

3 Right and Left channel volume balance adjustment

1 Set the SOURCE DIRECT button to OFF.

2 Use the BALANCE control as follows:

To decrease the right channel volume
..... Turn the control toward the LEFT
To decrease the left channel volume
.....Turn the control toward the RIGHT

4 Listening with headphones

1 Connect the headphones to the PHONES jack. The speaker output will be cut automatically.

2 Adjust the volume with the VOLUME control.

Attention

- Do not listen for long periods of time at high volume levels, as this may damage your hearing.
- When connecting a pair of headphones during playback, turn down the volume first.

5 Using a graphic equalizer connected to the amplifier

Set the SOURCE DIRECT button to OFF before beginning playback of the source.

Note:

Output signal levels of graphic equalizers differ from unit to unit. Because of this, the playback volume levels may increase or decrease suddenly if the position of the SOURCE DIRECT button is changed during playback.

If you wish to change the setting of the SOURCE DIRECT button during playback, first turn down the volume with the VOLUME control.

Attention

To prevent distortion when using the graphic equalizer during playback, do not set the frequency level controls to their maximum positions.

Protection circuit

This amplifier includes a built-in protection circuit that is activated to protect the speakers from noise damage when the amplifier's power is turned on.

The protection circuit also functions during playback to protect the speakers from overloads, and to protect the circuit from damage. When speakers with less than the rated impedance are used, the protection circuit will short-circuit the ⊕ and ⊖ speaker cords.

When the protection circuit is engaged, the output signal will be cut automatically.

Should the sound be cut during playback:

❶ Turn off the amplifier.

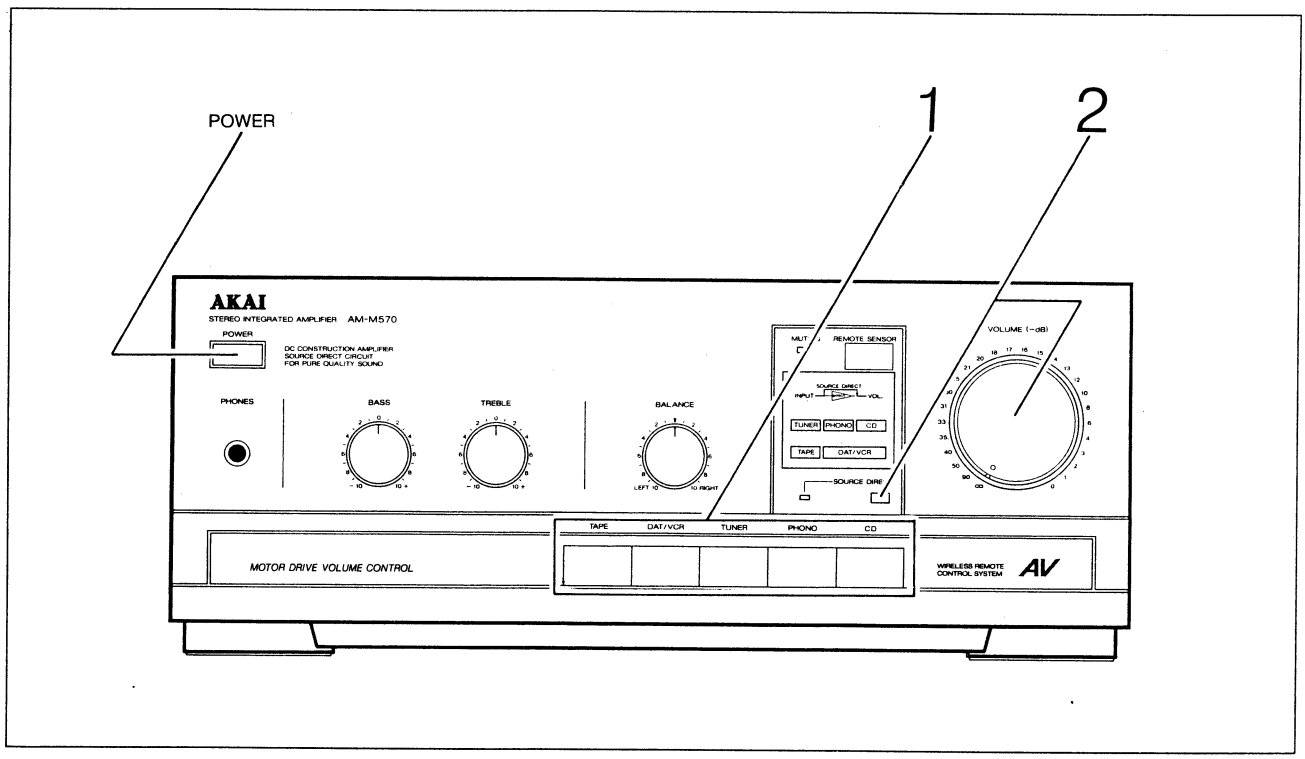
❷ Check for and correct the cause.

❸ Turn the amplifier back on.

Recording

Before beginning

- Turn on all the components.
- If using a DAT for recording, set it for analog recording.



Operation

1 Select a recording source with the input select buttons as follows:

To record from a record ..... Press PHONO.
To record from an FM or AM broadcast ..... Press TUNER.
To record from a compact disc ..... Press CD.
To record from a DAT cassette or video cassette ..... Press DAT/VCR.

2 Set the amplifier to the normal playback mode. Set the SOURCE DIRECT button to the proper position, and adjust the volume with the VOLUME control.

3 Prepare for recording and playback.

4 Adjust the recording level of the cassette deck and begin recording.

During recording

- Do not touch the input select buttons as this will interfere with recording.
- During recording, the VOLUME control, BASS and TREBLE tone controls, BALANCE control and MUTE button can be used. If you wish to adjust the tone, set the SOURCE DIRECT button to OFF **before recording**. The signals being recorded will not be affected by these adjustments.

Notes for tape dubbing

Normally use the double cassette deck's dubbing feature. However, dubbing can also be performed as follows:

1 Connect a cassette deck or DAT for playback to the DAT/VCR jacks, and a cassette deck or DAT for recording to the TAPE jacks.

2 Press the DAT/VCR button of the amplifier.

3 Play back the original tape on the cassette deck connected to the DAT/VCR jacks and record on the deck connected to the TAPE jacks.

Troubleshooting

Problem	Check point
No power. **No sound.**	• Amplifier connections are not correct. Check the amplifier connections. • Headphones are connected to the PHONES jack. Disconnect the headphones. • VOLUME control is set to ∞. Set the VOLUME control to the appropriate position. • Input select button is not set to the correct playback source. Press the button corresponding to the source you wish to listen to. • The short pins have been removed from the PROCESSOR IN and OUT jacks. Replace the short pins.
The VOLUME SCALE indicates a higher volume level than can be heard.	• The MUTE button is set to ON. Set the button to OFF.
No sound after the power is turned on.	• The protection circuit is engaged. Wait a few seconds.
No sound during playback.	• The protection circuit is engaged. Stop playback as soon as possible, turn off the power, and then check the speaker cord connections. Connect a speaker system with an impedance of 8 ohms or more or turn down the playback volume.
Humming noise is heard during record playback.	• The turntable's earth wire is not connected. Connect it to the ⏚ GND terminal.
Bass or stereo sound is not reproduced fully.	• Speaker system connections are not correct. Check the polarity (⊕ and ⊖) of the connections.
Balance, bass and treble tone controls are not effective.	• The SOURCE DIRECT button is set to ON. Set it to OFF.
Recording cannot be performed.	• The tape deck is not properly connected. Check the connections. • The input select button is not set to the source you wish to record. Select the source you wish to record.
Connected graphic equalizer or surround processor is not effective.	• The SOURCE DIRECT button is not set to OFF. Set the button to OFF.
Remote control operation will not function properly.	• Power is turned off. Turn the power of all components on. • Obstacles placed in front of the remote sensor window of components. Remove the obstacles. • Batteries are discharged. Replace them with new ones.

Keep the cabinet clean

- Clean the cabinet with a soft, dry cloth.
- If the cabinet is very dirty, clean it with a mild detergent.
- Never use paint thinner, etc. to clean the cabinet as this may damage the finish.

Should a problem persist, write down the model and serial numbers and all pertinent data regarding warranty coverage as well as a clear description of the existing trouble. Then contact your nearest authorized Akai service station.

Specifications

Power output by DIN (1 kHz, 8 ohms)	40 W + 40 W
Music power	190 W
Power band width	5 Hz to 80 kHz/0.1%
S/N (IHF-A)	
PHONO (MM)	72 dB
TUNER etc	93 dB
Residual noise	0.5 mV
Channel separation (1 kHz)	60 dB
Damping factor (1 kHz, 8 ohms)	35
Required speakers impedance	8 to 16 ohms
Input sensitivity/Impedance	
PHONO	2 mV/47 kohms
TUNER, etc.	150 mV/47 kohms
Phono max. input level (1 kHz)	100 mV
Output level/Impedance	
TAPE	150 mV/1 kohm
Frequency response	
PHONO	±0.5 dB
TUNER, etc.	10 Hz to 50 kHz (−3 dB, at source direct)
Tone control	
Bass	±8.5 dB at 100 Hz
Treble	±8.5 dB at 10 kHz
Power requirements	220 V, 50 Hz for Europe except UK 240 V, 50 Hz for UK and Australia 110 V/120 V/220 V/240 V, 50/60 Hz convertible for other countries
Dimensions	350 (W) × 138 (H) × 360 (D) mm (13.8 × 5.4 × 14.2 inches)
Weight	5.7 kg (12.5 lbs)

Standard accessories

Wireless remote control	×1
Dry battery (R6, DC 1.5 V)	×2

* For improvement purposes, specifications and design are subject to change without notice.

Features

- 40 W + 40 W power output power DC construction amplifier.
- The provided RC-S770 remote control unit can be used for basic remote control operation of the following Akai components: AT-M670/L tuner, AM-M570 amplifier, CD-M670 CD player, and HX-M670W/HX-M770W double cassette decks.
- Audio mute system.
- Motor driven volume control for remote control operation.
- Source direct button.
- Bass and treble tone control system.
- PROCESSOR IN and OUT jacks for connection of optional graphic equalizer.
- Electronic muting and speaker protection system.
- Balance control.